

Pressure Measuring Apparatus and Pressure Sensor Thereof

Abstract of the Disclosure

the present invention relates to a pressure measuring apparatus having
5 a major technique signature of using only one resistor, wherein while
measuring an external stress using the apparatus, an oscillating signal is
received at an end of the resistor which is affected by the external stress, and
consequently the affected resistor will have effect on the oscillating signal
which is outputted from the other end of the resistor thereafter. Hence, the
10 present invention provides a pressure measuring apparatus and a pressure
sensor thereof using the frequency difference of the oscillating signal in
accordance to the variation of the resistor value as base for measuring the
external stress. Hence, the present invention requires no amplifier and A/D
converter so that the whole manufacturing process is simplified and also the
15 overall cost of the pressure measuring apparatus is reduced.